

METHOD FOR PURIFYING MATTER CONTAMINATED WITH
HALOGENATED ORGANIC COMPOUNDS

ABSTRACT

A method for purifying matter contaminated with a
5 halogenated organic compound is disclosed. The method
includes the step of adding a reducing agent and a
nutritional source for a heterotrophic anaerobic
microorganism to the contaminated matter. The reducing
agent is reduced iron, cast iron, iron-silicon alloy and so
10 on, or a water soluble compound. A combination of chemical
reactions with microorganisms allows to decompose the
halogenated organic compound. The nutritional source
including an organic carbon and 20 to 50 percent by weight
of an oxidized form of nitrogen is added, thereby preventing
15 by products of the decomposition such as generation of
noxious gases and decoloration of soil. A method includes
the steps of mixing a reducing agent and a nutritional
liquid with the contaminated matter, wherein the mixing step
including a step of adjusting the contaminated matter at pH
20 ranging from 4.5 to 9.0; and keeping the mixture in a
condition that air hardly penetrates through a matrix,
thereby allowing to uniformly mix a large amount of the
contaminated matter.